

T_g (DSC) of cast PU resin based on 4 different polyols with different amounts of glycerin

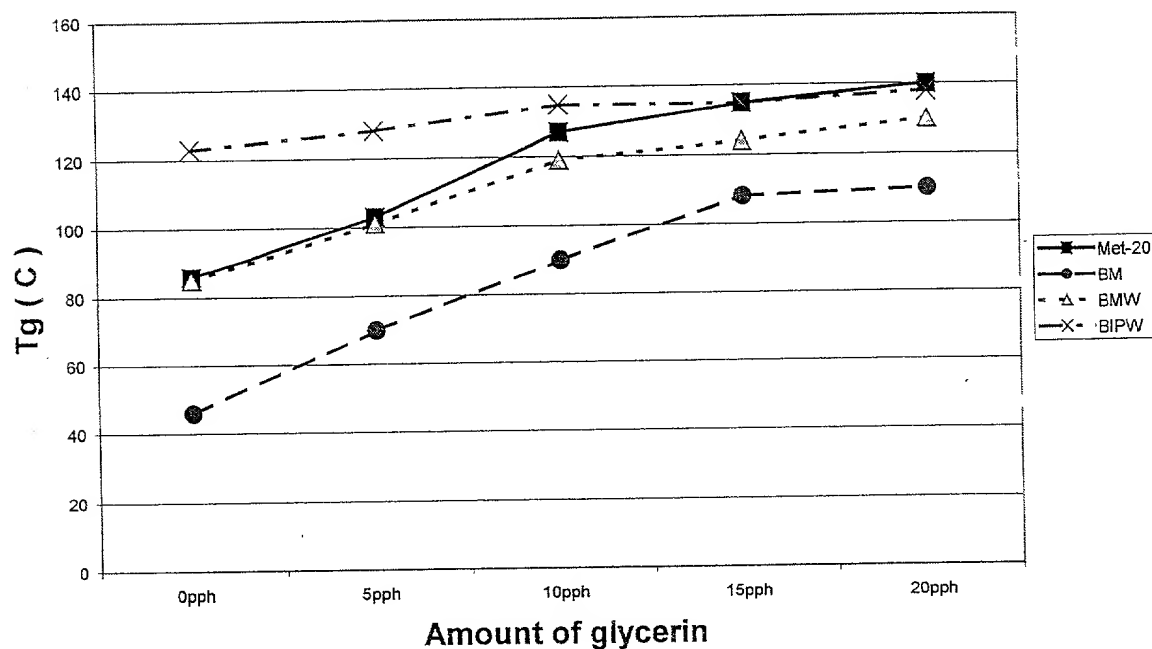


FIG. 1

Flexural modulus of cast PU resin based on 4 different polyols with different amounts of glycerin

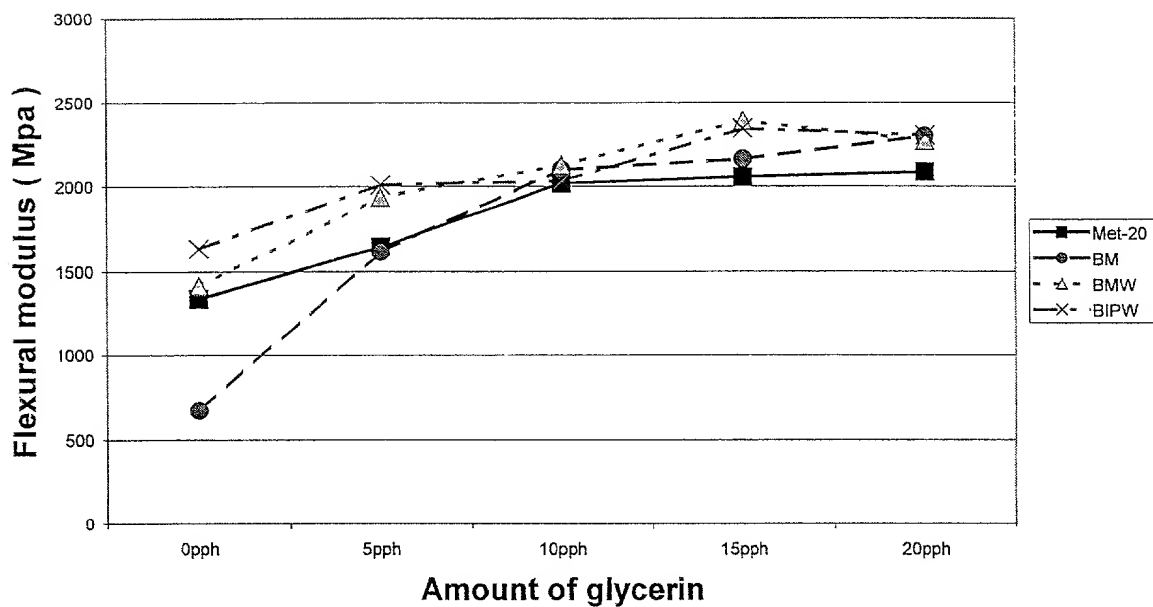


FIG. 2

Tensile strength of cast PU resin based on 4 different polyols with different amounts of glycerin

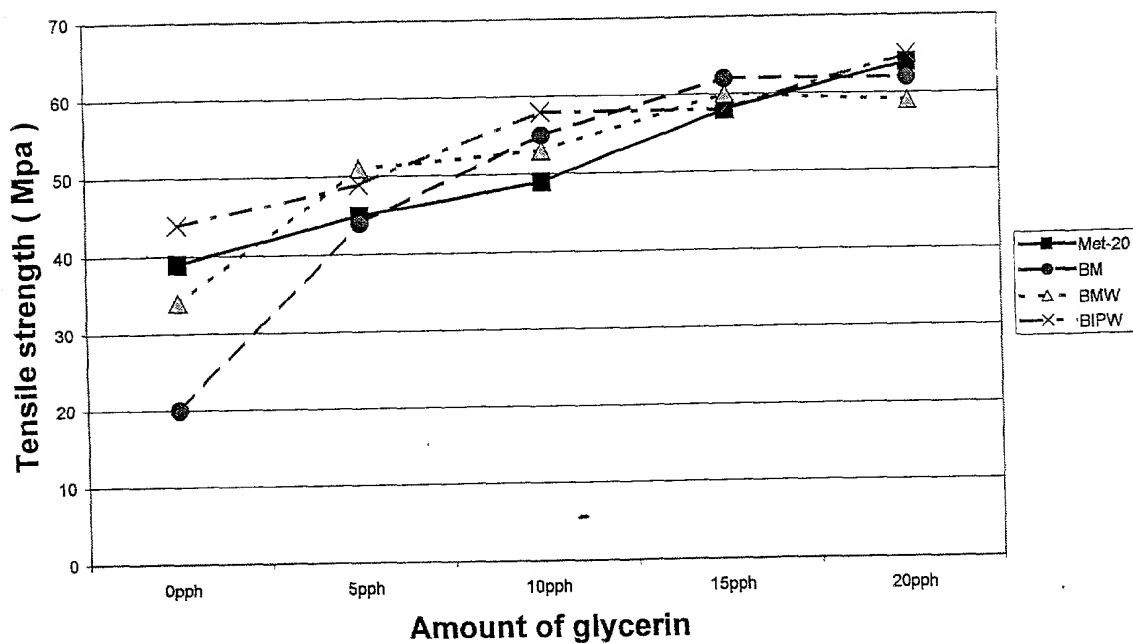


FIG. 3

Compressive strength of cast PU resin based on 3 different polyols with different amount of glycerin

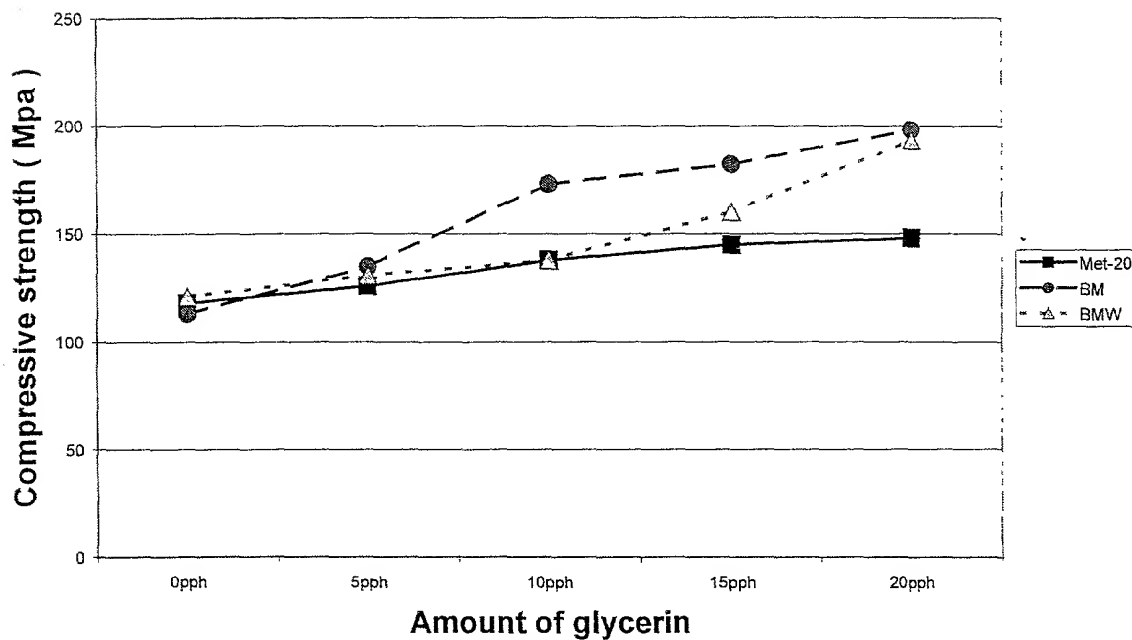


FIG. 4

Hardness of cast PU resin based on 4 different polyols with different amount of glycerin

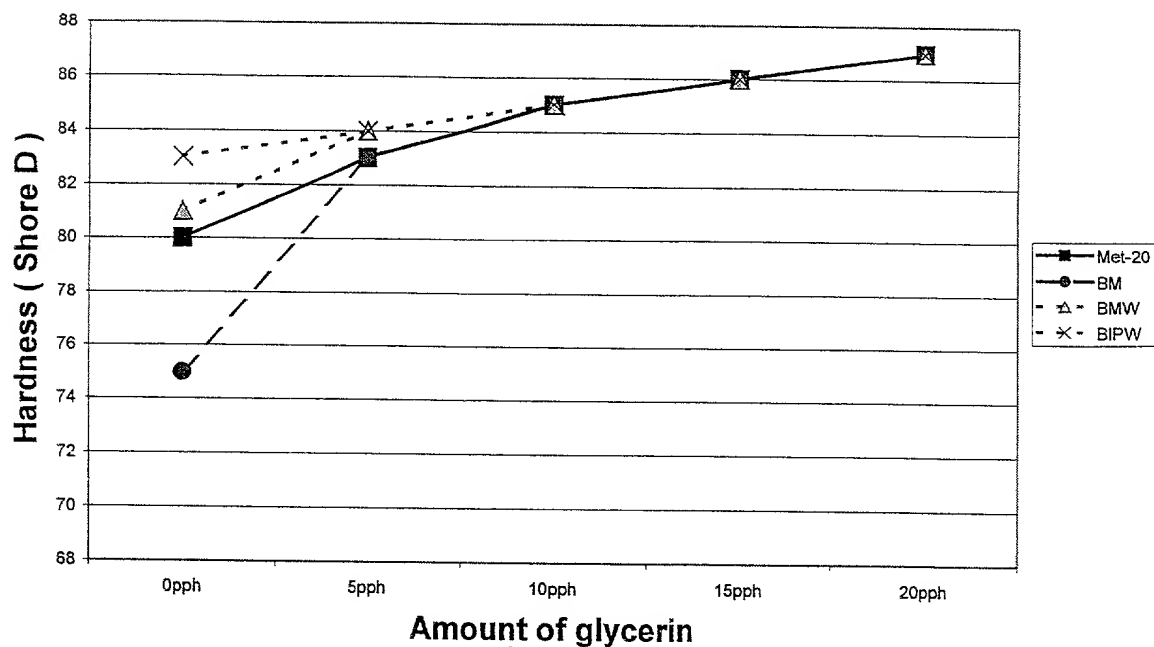


FIG. 5

Effect of temperature on gel time

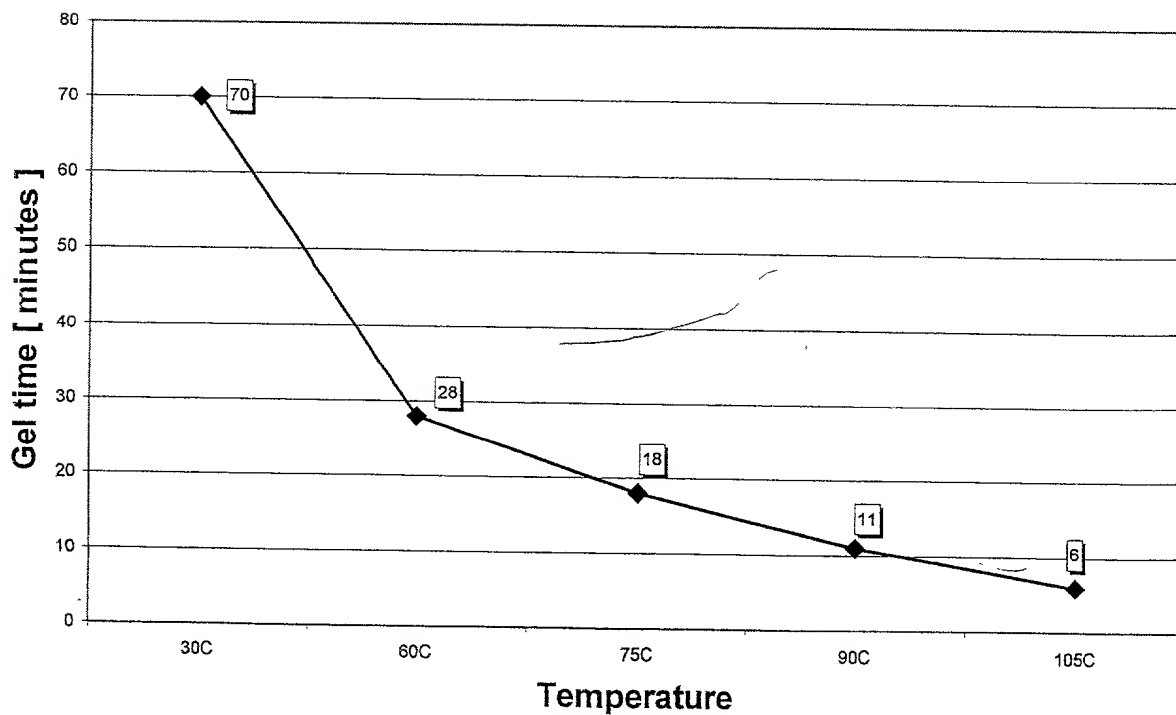
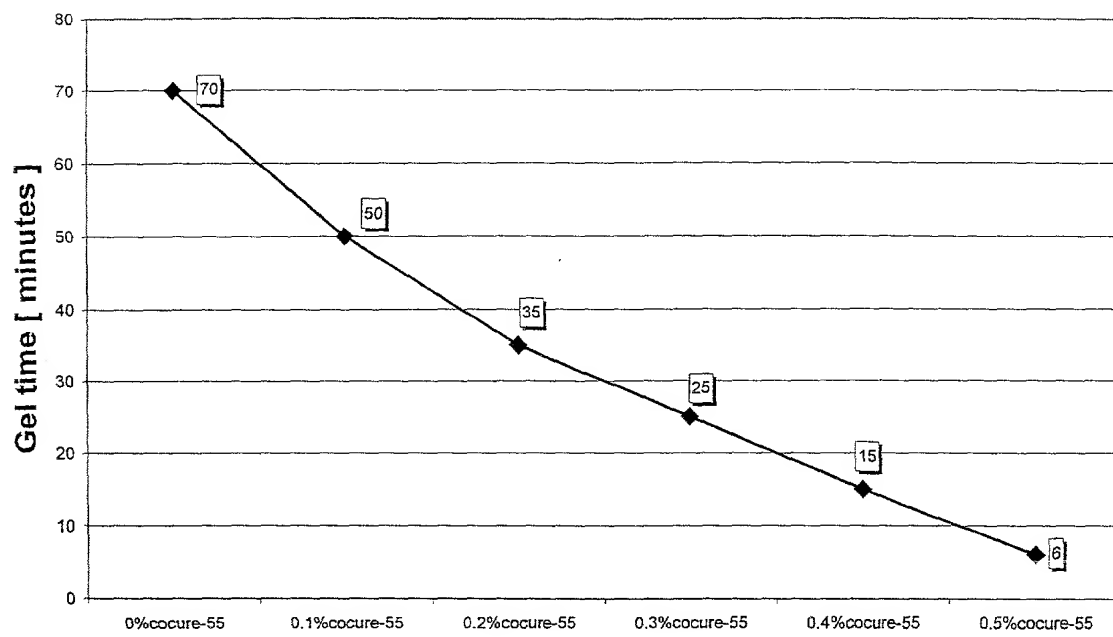


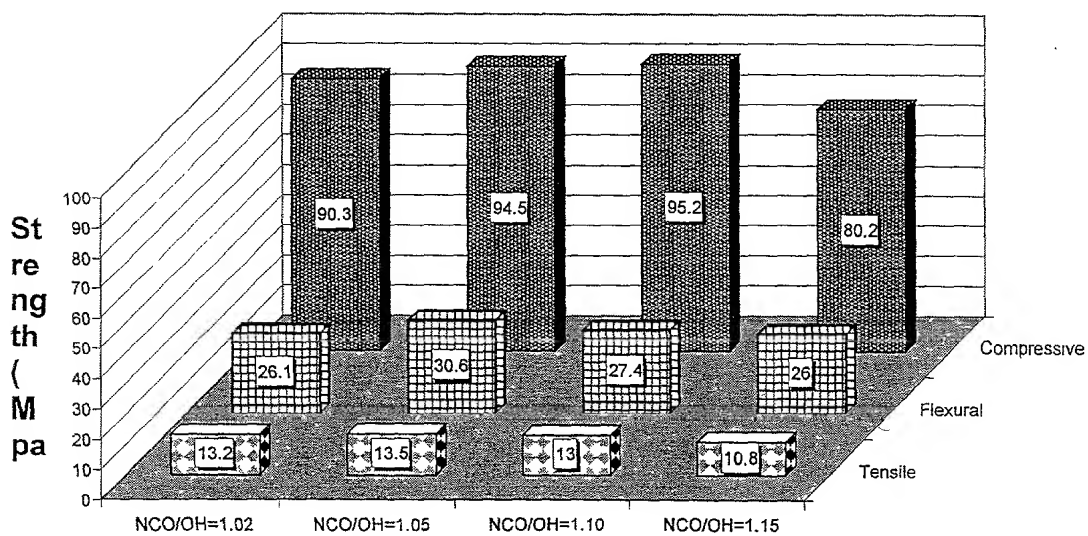
FIG. 6

Effect of amount of catalyst on gel time at 30C



Amount of catalyst
FIG. 7

Effect of NCO/OH ratio on mechanical strength of polymer concrete



NCO/OH ratio

FIG. 8

Effect of resin amount on mechanical strength of polymer concrete

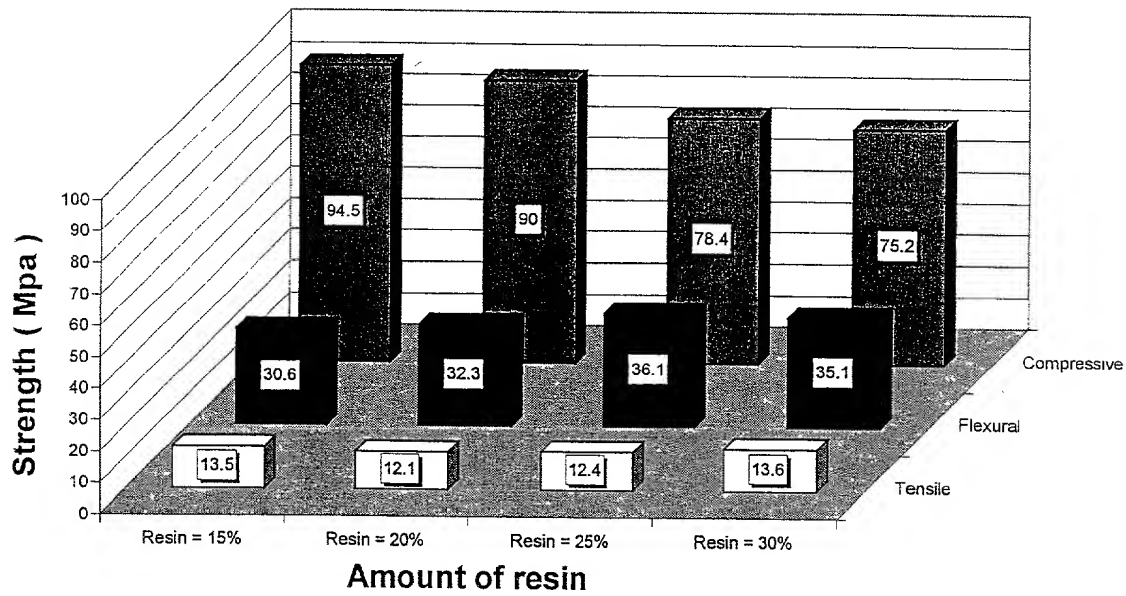


FIG. 9

Effect of amount of fine powder on mechanical strength of polymer concrete

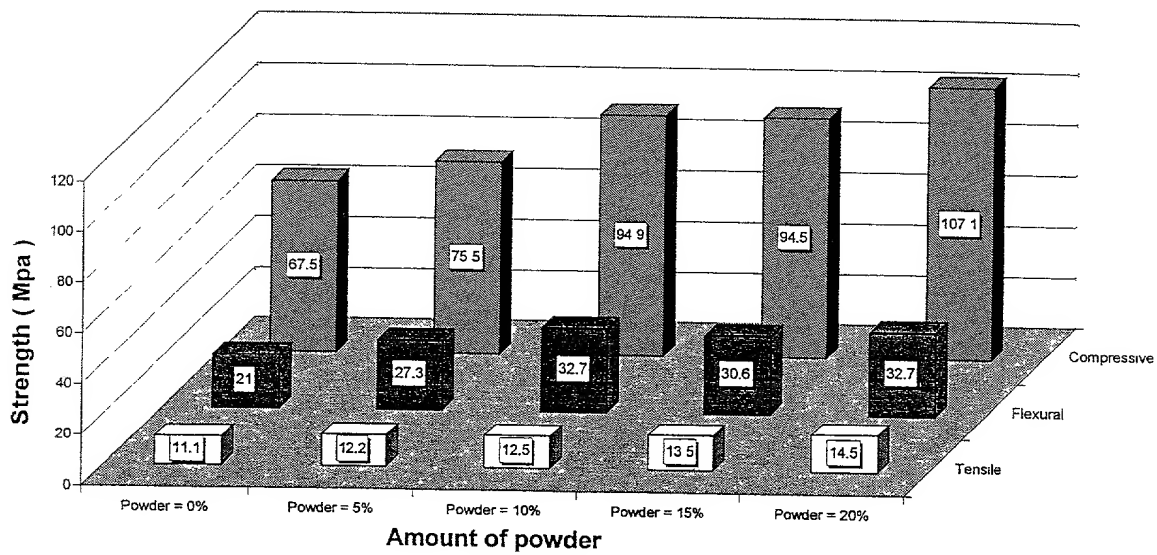


FIG. 10

102130 02582600

Effect of amount of pea gravel on mechanical strength of polymer concrete

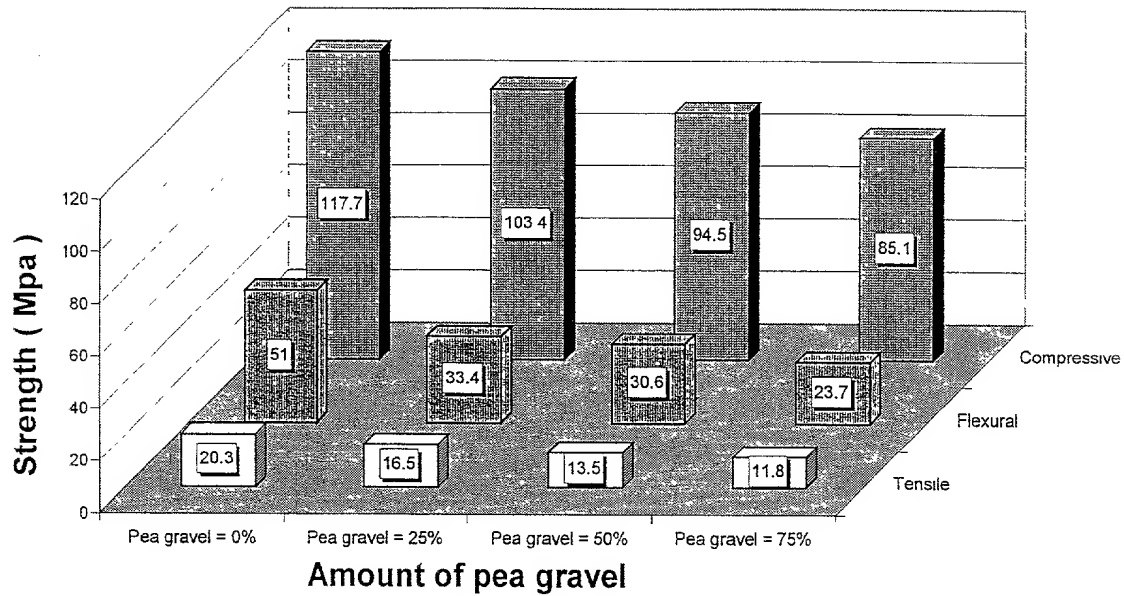


FIG. 11

Effect of sand type on mechanical strength of polymer concrete

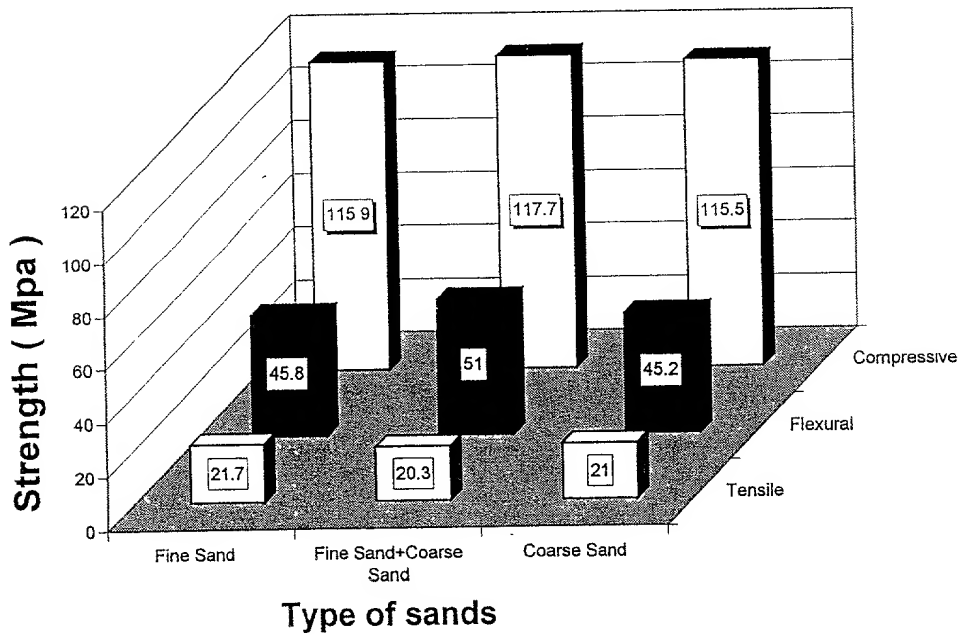


FIG. 12

Effect of amount of glycerin on mechanical strength of polymer concrete (with pea gravel)

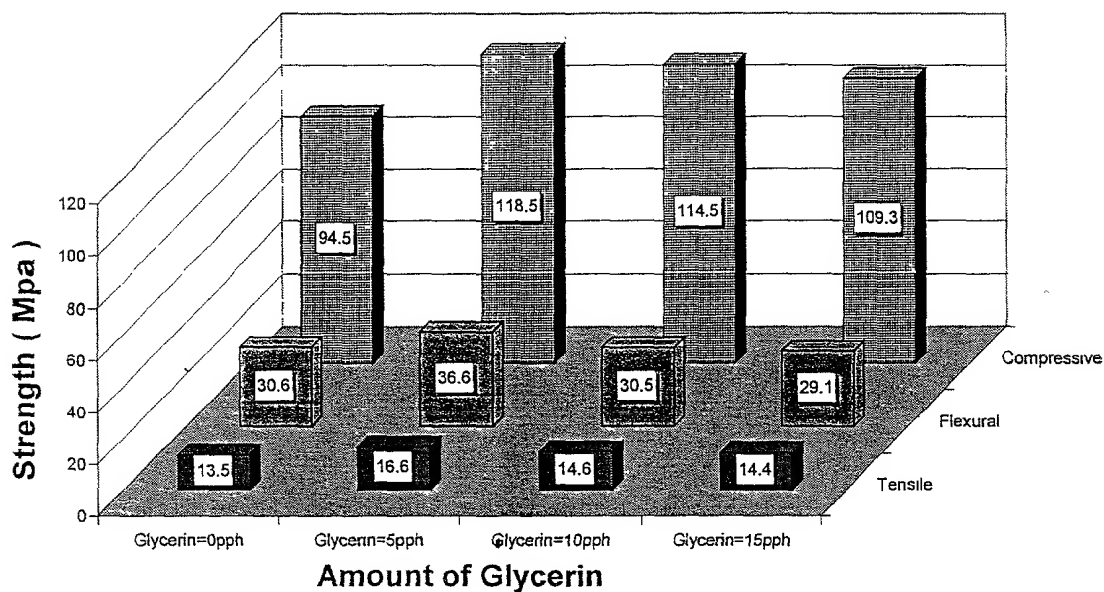


FIG. 13

Effect of amount of glycerin on mechanical strength of polymer concrete (without pea gravel)

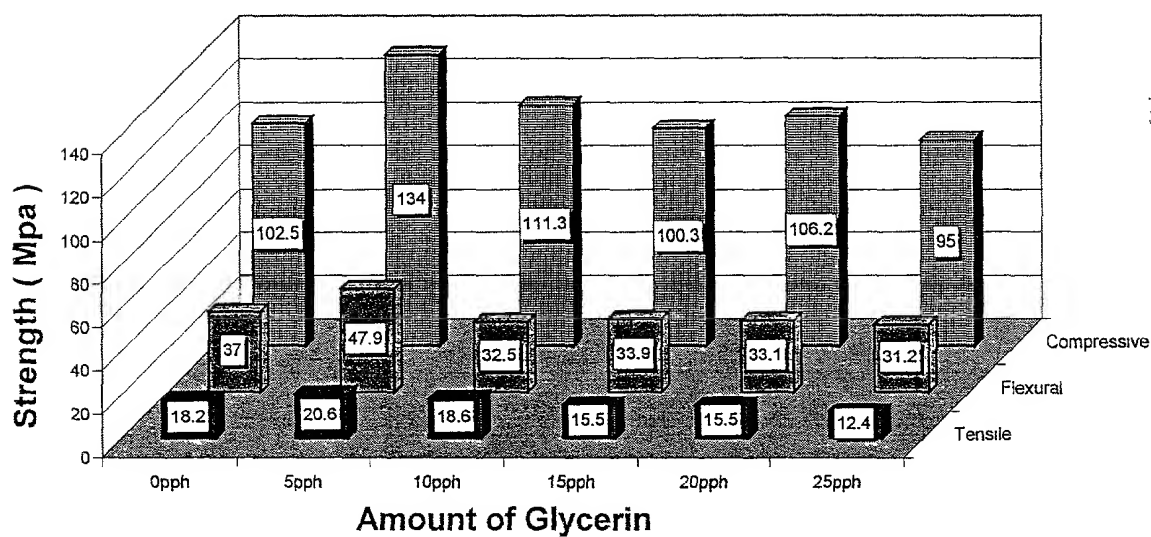
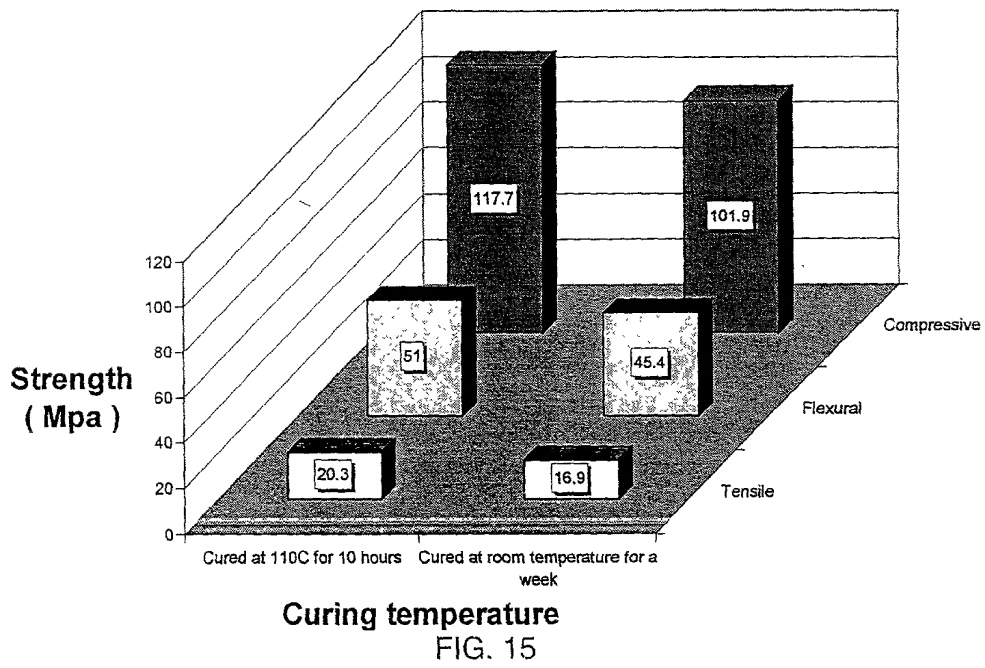
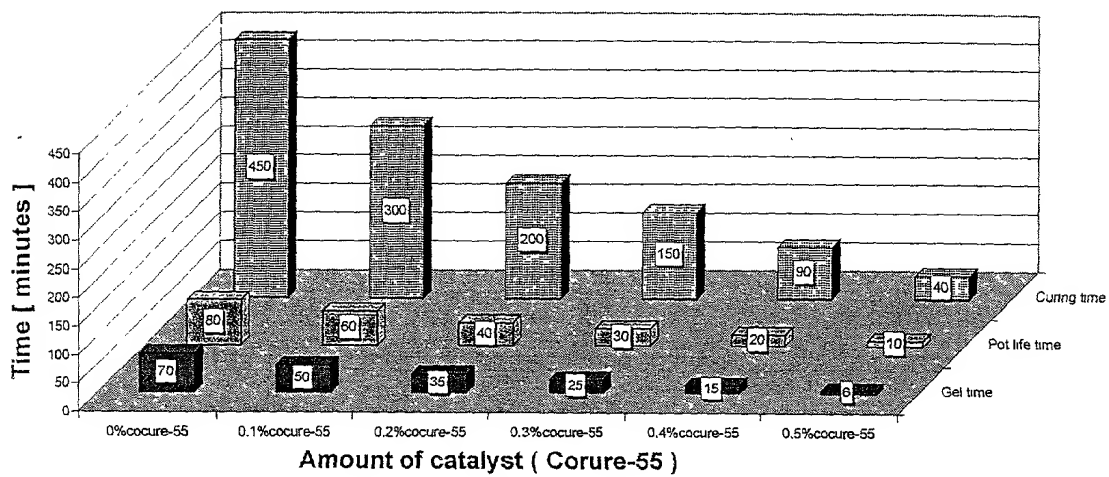


FIG. 14

Effect of curing temperature on mechanical strength of polymer concrete



Effect of amount of catalyst on mechanical strength of polymer concrete (cured for a week)



Effect of amount of catalyst on mechanical strength of polymer concrete (cured for 24 hours)

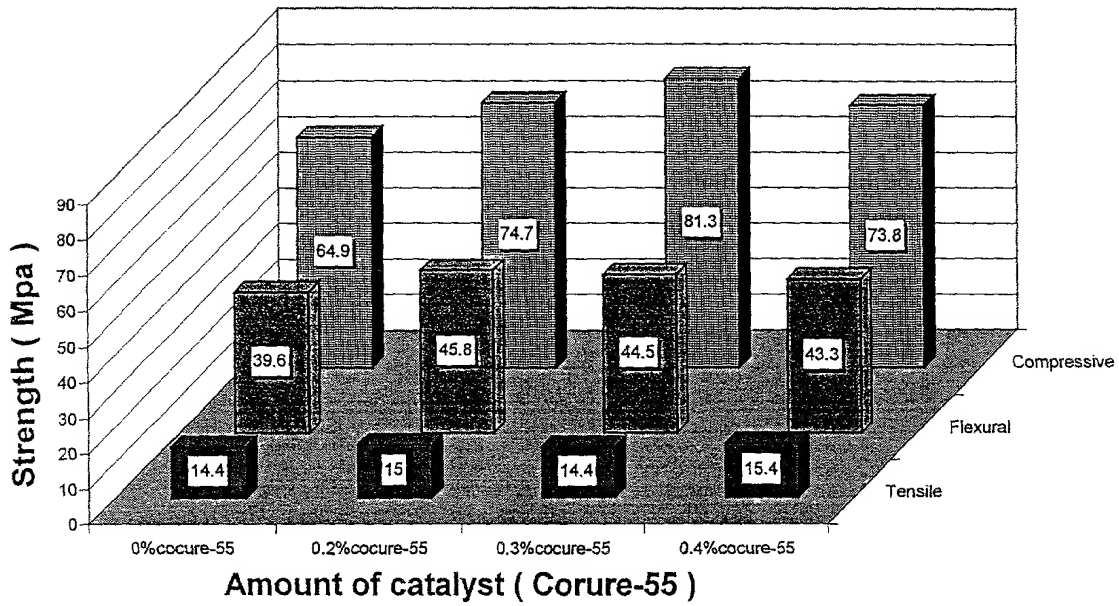


FIG. 17

Effect of amount of catalyst on mechanical strength of polymer concrete (cured for a week)

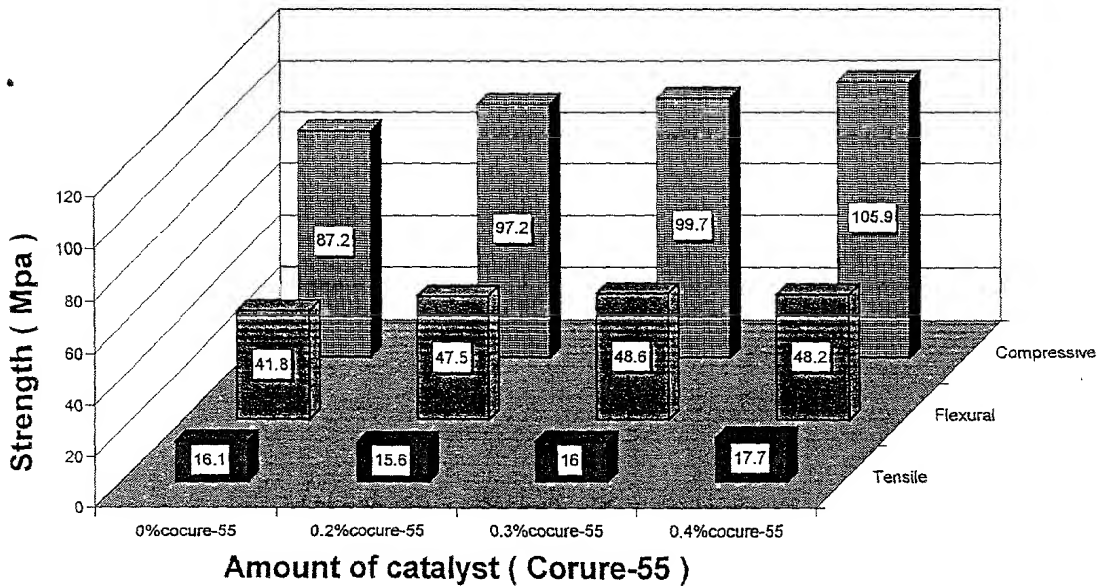


FIG. 18

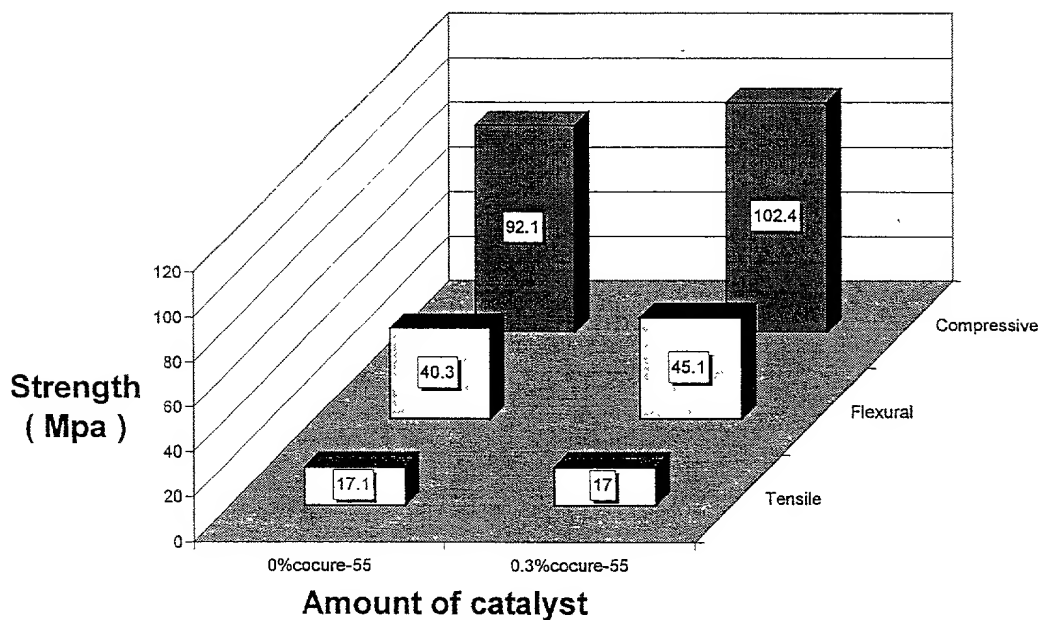
[illegible]

FIG. 19

**Effect of catalyst on mechanical strength of
polymer concrete
(room temperature cured for 1 month)**

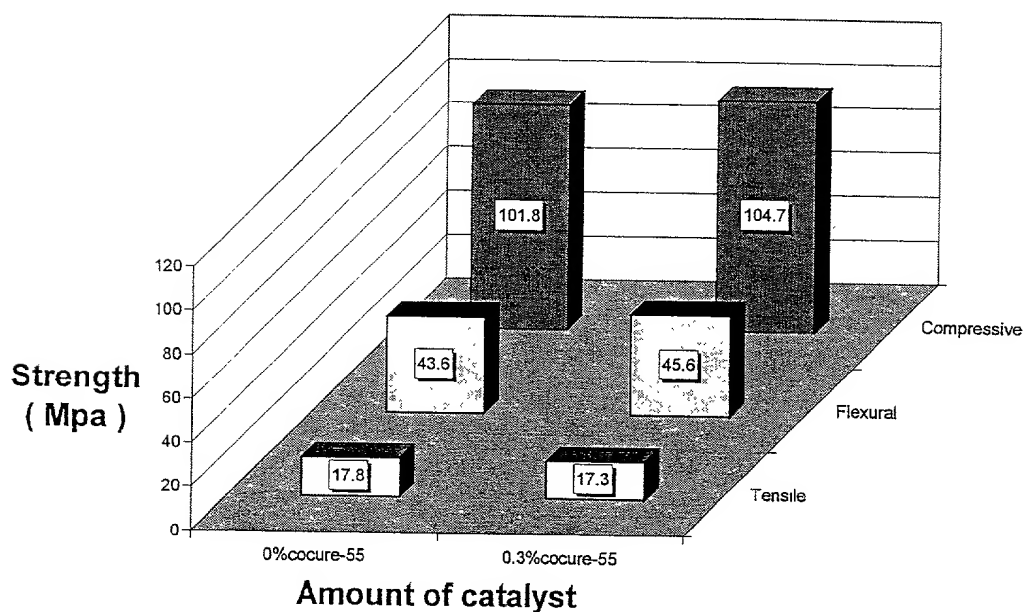


FIG. 20

**Effect of catalyst on mechanical strength of
polymer concrete
(room temperature cured for 2 month)**

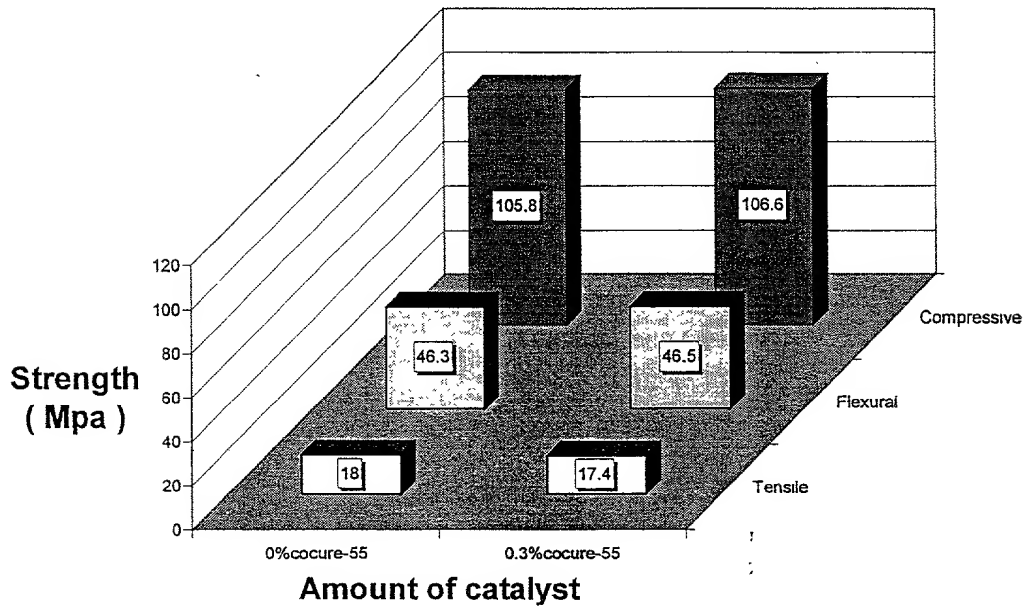


FIG. 21

**Effect of catalyst on mechanical strength of
polymer concrete
(room temperature cured for 3 month)**

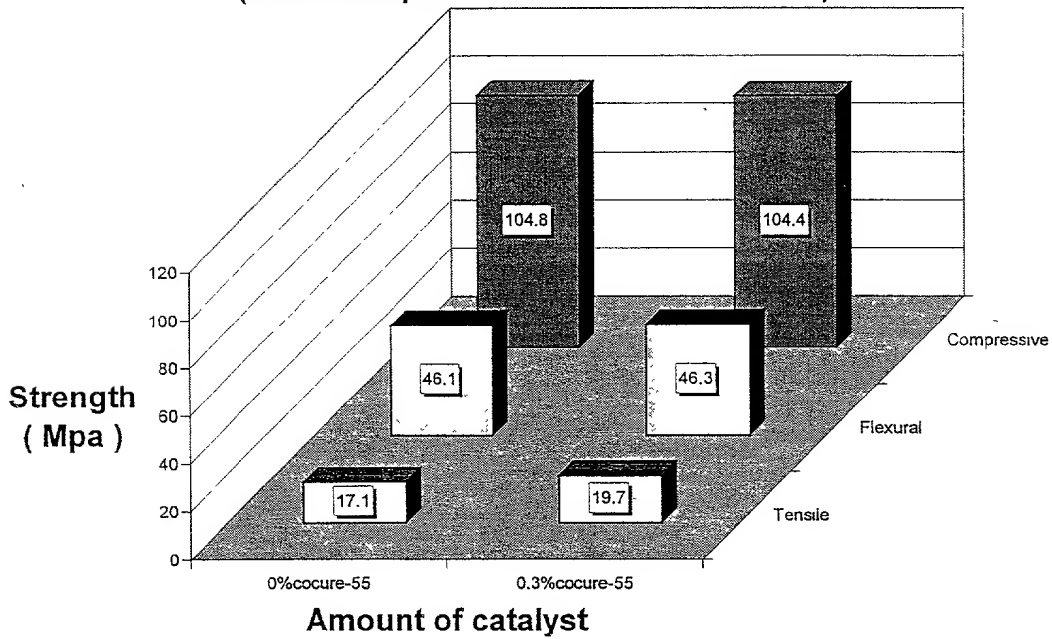


FIG. 22

**Effet of curing time on the mechanical properties
of Soy-based PU concrete samples cured at room temperature
without catalyst**

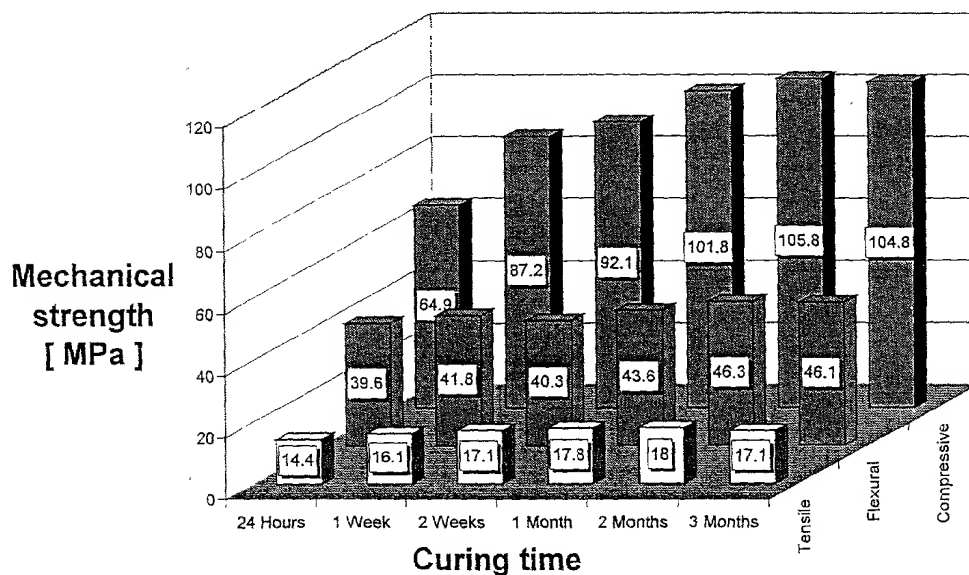


FIG. 23

**Effet of curing time on the mechanical properties
of Soy-based PU concrete samples cured at room temperature
with 0.3% cocure 55 as a catalyst**

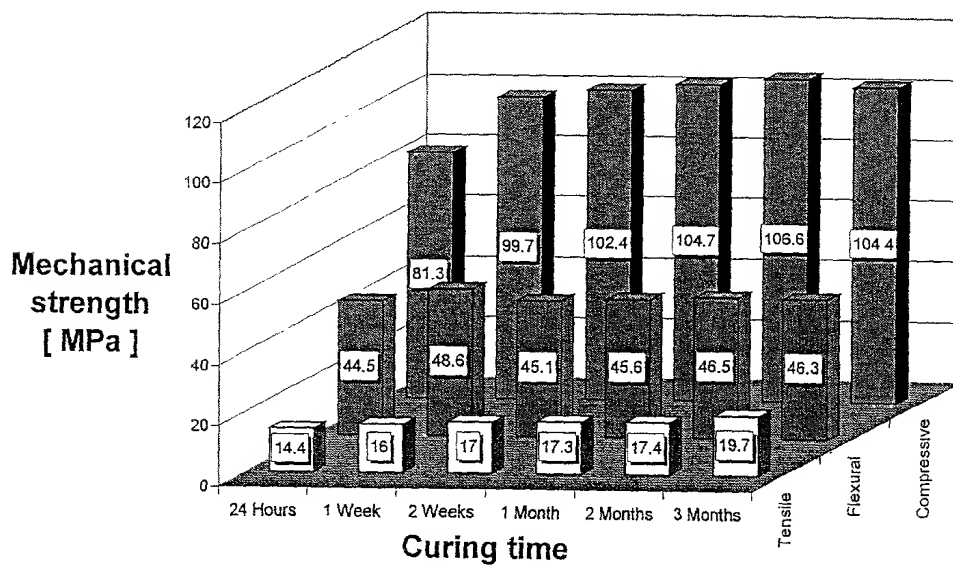


FIG. 24

Tg of polymer concrete samples based on different matrix resins

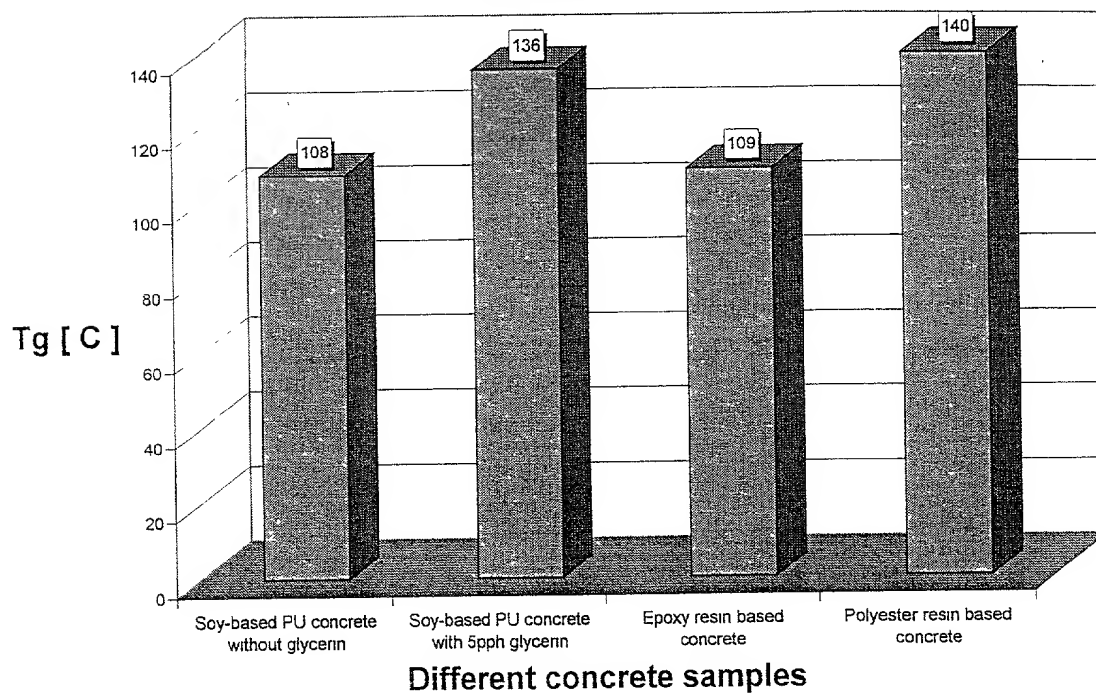


FIG. 25

Splitting tensile strength of polymer concrete samples based on different matrix resins

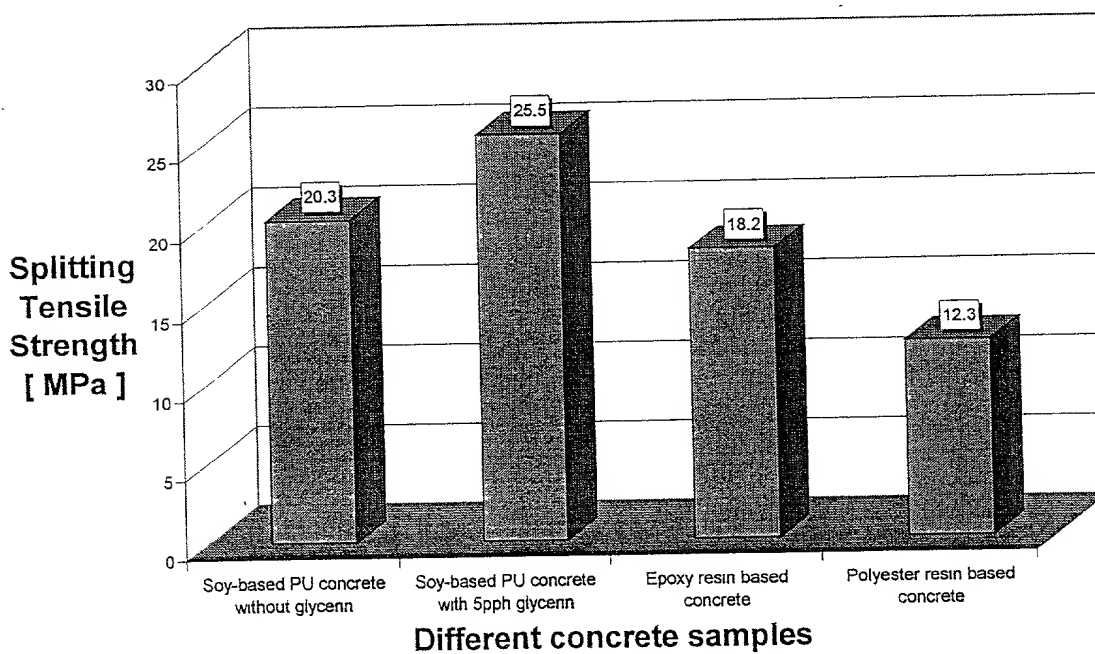


FIG. 26

Compressive strength of polymer concrete samples based on different matrix resins

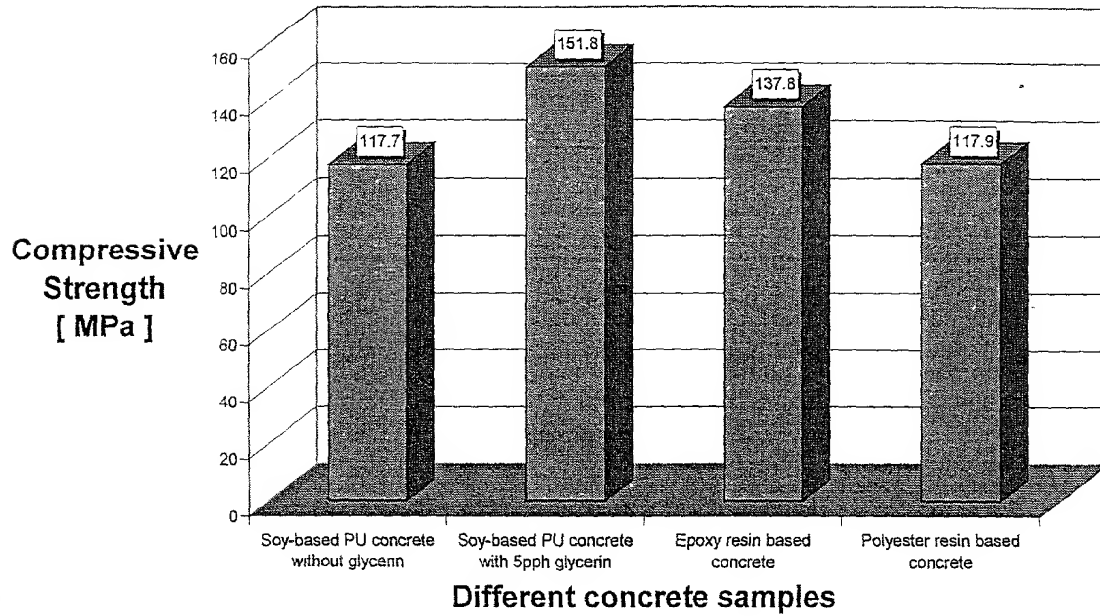


FIG. 27

Bending strength (MOR) of polymer concrete samples based on different matrix resins

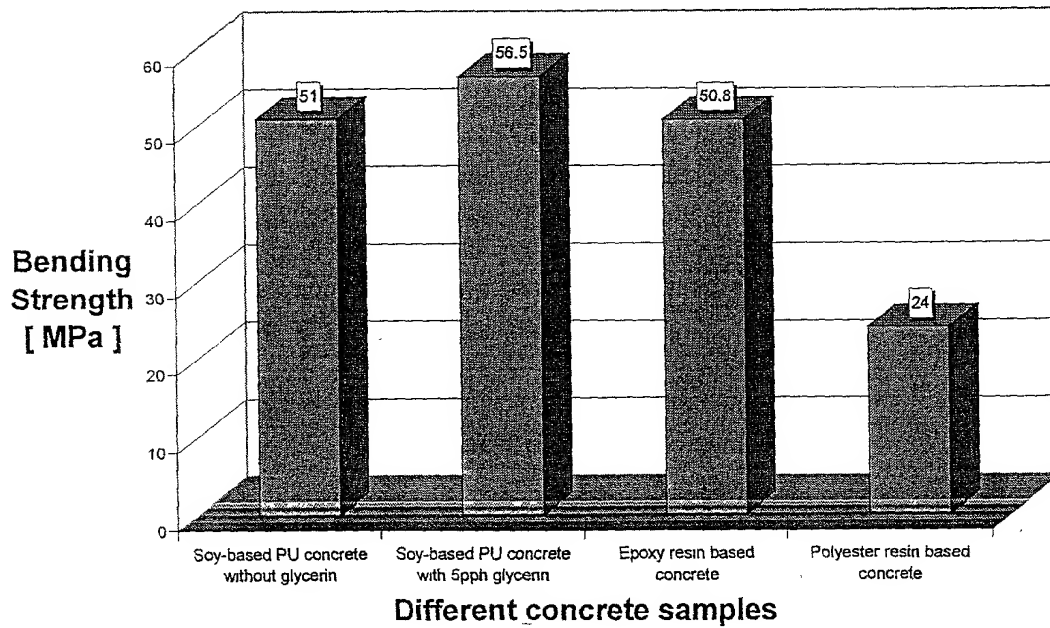


FIG. 28

Flexural modulus of polymer concrete samples
based on different matrix resins

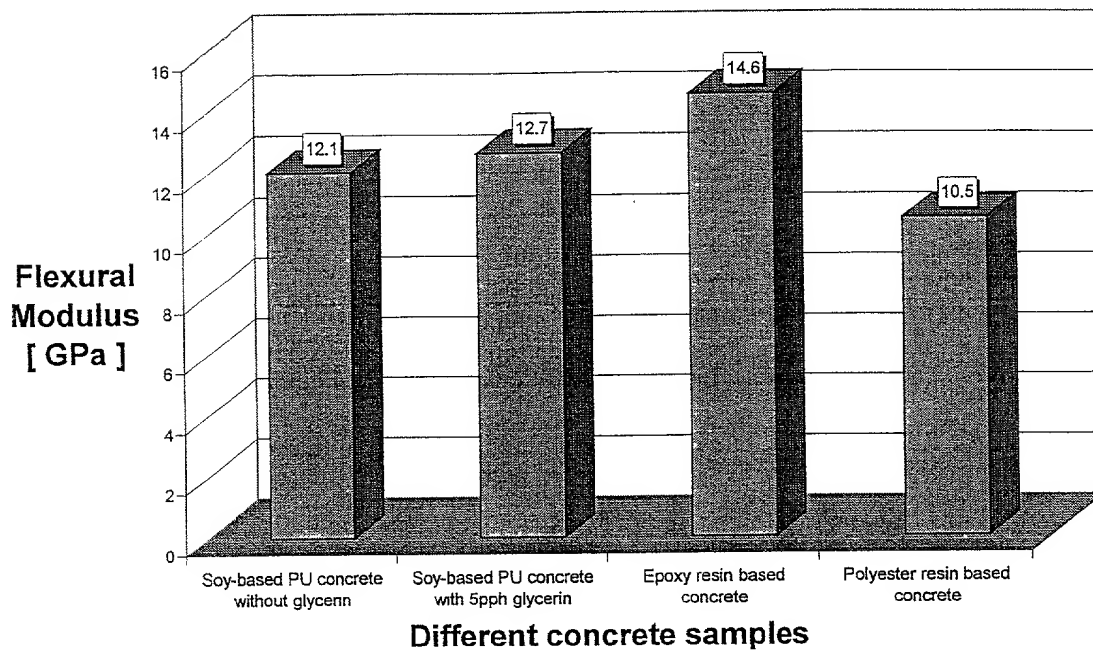


FIG. 29

Abrasion resistance of polymer concrete samples
based on different matrix resins

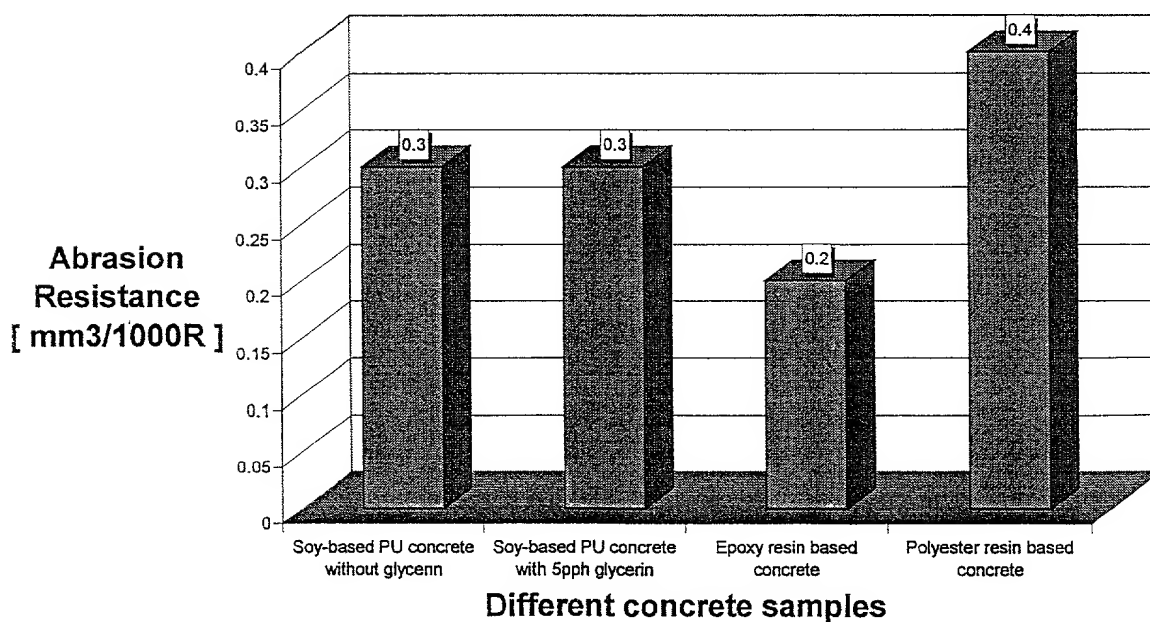


FIG. 30

Effect of water on mechanical strength of polymer concrete

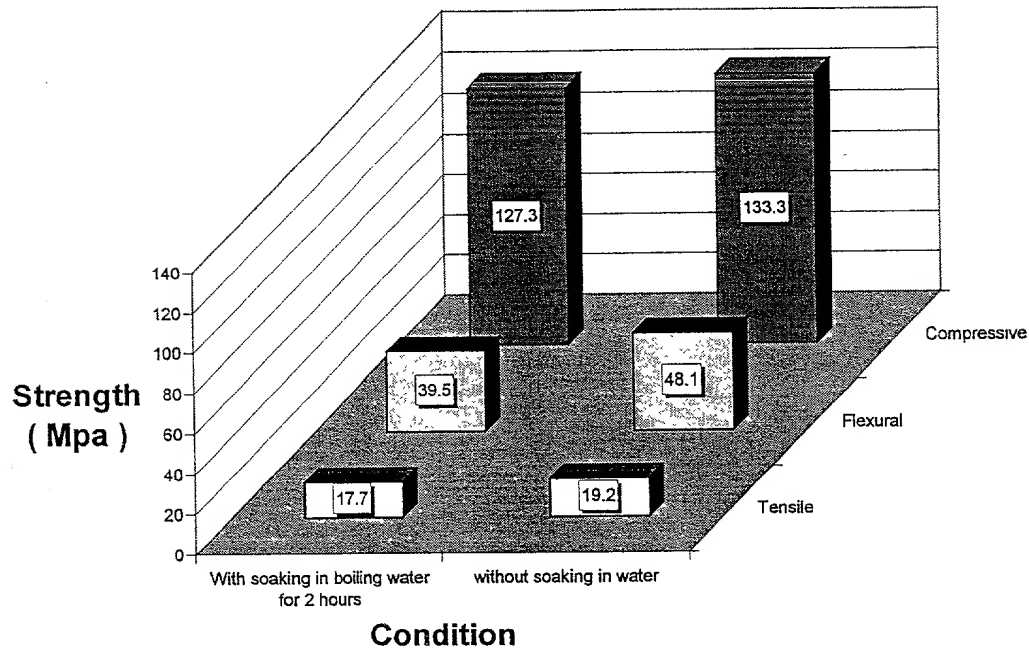


FIG. 31

Density of Soy-based PU polymer concrete and conventional concrete

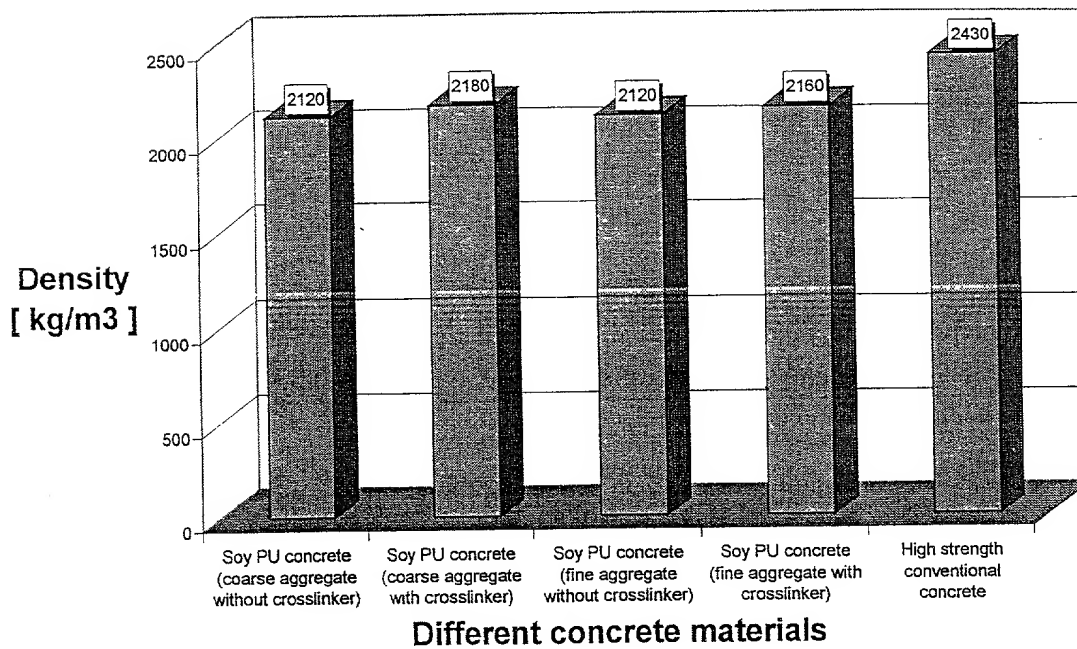


FIG. 32

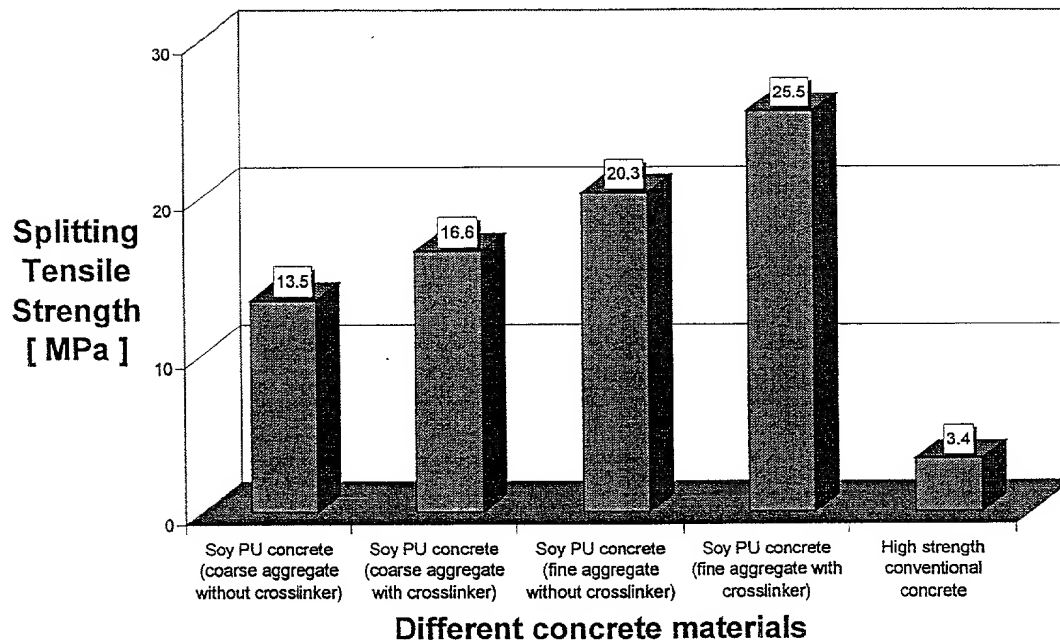
[illegible]

FIG. 33

Flexural strength of Soy-based PU polymer concrete and conventional concrete

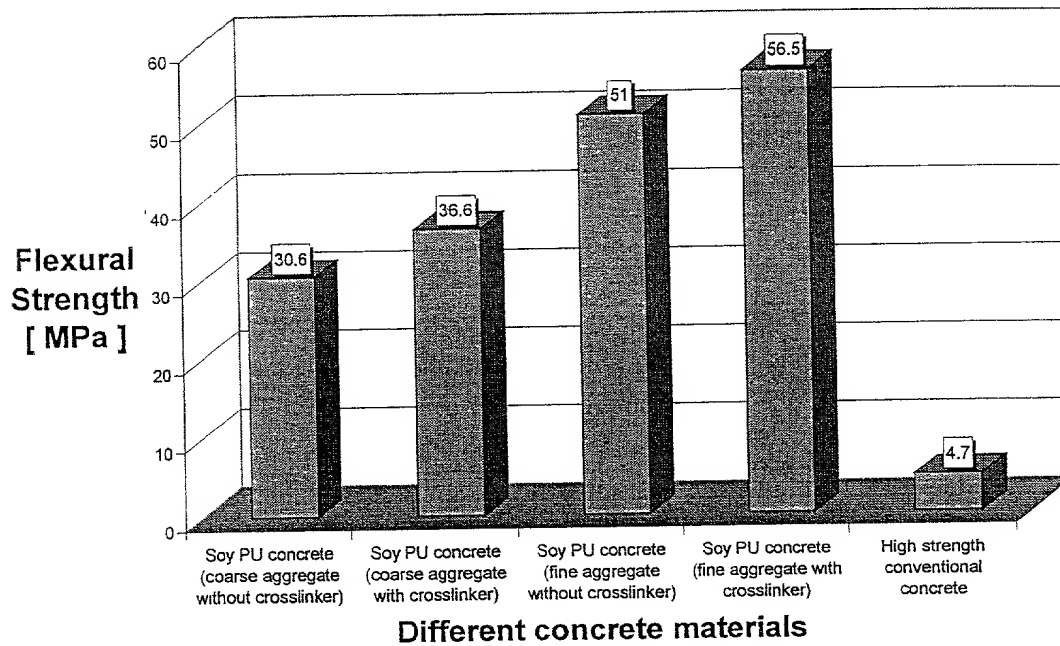


FIG. 34

Compressive strength of Soy-based PU polymer concrete and conventional concrete

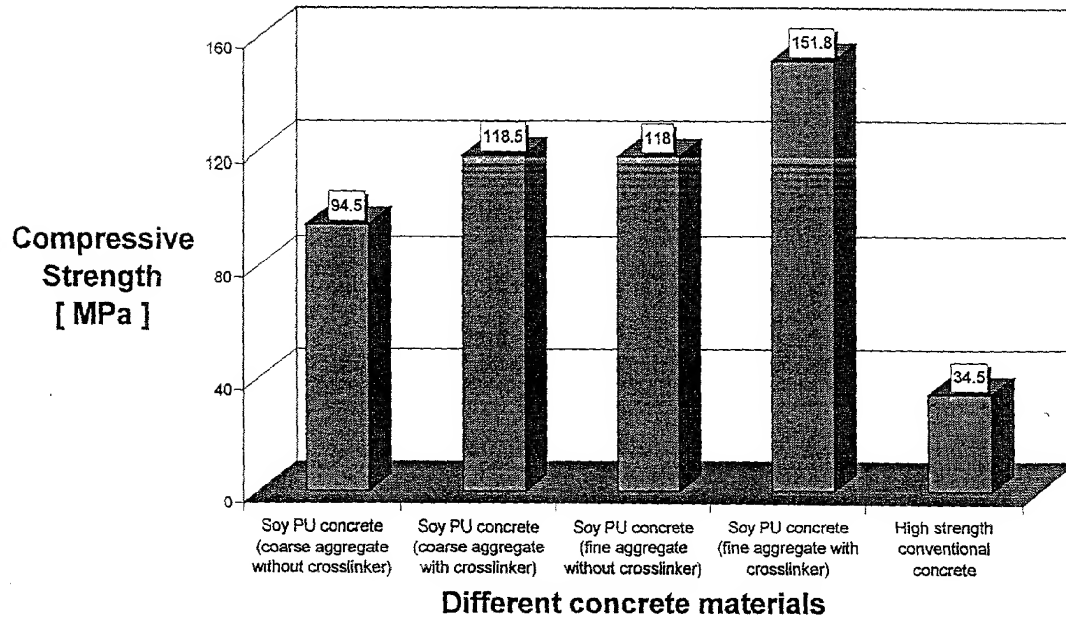


FIG. 35

Abrasion resistance of Soy-based PU polymer concrete and conventional concrete

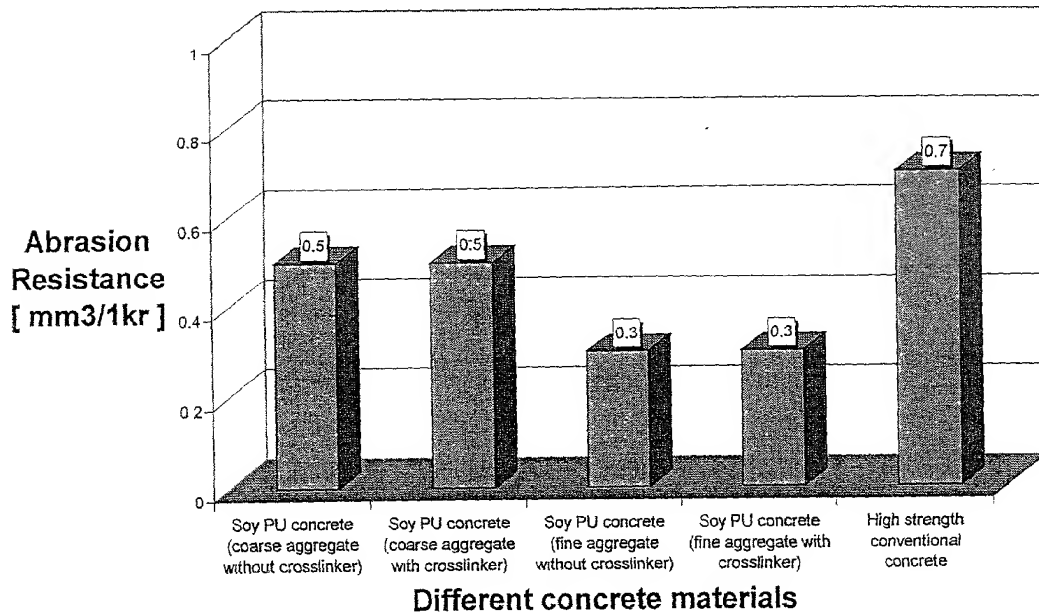


FIG. 36